

Aqua-C3.0H 5154-1288-4h IEC

(Aqua-C3.0H Ultra)

Liquid-Cooled Energy Storage System



* The illustration is for reference only. The actual product's appearance might vary depending on the configurations.



Optimal Costs

- Back-to-back and side-by-side layout design, reducing footprint.
- All pre-assembled, no battery module handling on site.



Ultimate Security

- Intelligent management of battery health, early warning of faulty batteries.
- Active ventilation and explosion venting design to control deflagration risks.
- Compliant with IEEE 693 moderate seismic level (standard) or high seismic level (optional).



Effective and Flexible

- Modular design reduces failure impacts and less than 38 tons, offering better transport adaptability.
- Intelligent active balancing technology (optional) and bio-inspired solutions enhance battery lifespan and system discharge capacity.



Convenient O&M

- Intelligent active balancing (optional) reduces energy storage station O&M costs.
- Rapid state detection and fault recording achieve rapid positioning and analysis of system faults.

Parameter	Aqua-C3.0H 5154-1288-4h IEC
DC-side parameter	
Cell type	LFP 3.2 V / 587 Ah
Battery configuration	392S7P
Nominal capacity	5154.3 kWh
Nominal power	1288 kW
Battery voltage range	1060–1411.2 V
Nominal battery voltage	1254.4 V
System parameter	
Auxiliary power supply	400 V AC, 50 Hz/60 Hz
Operating ambient temperature range	–30°C to +50°C
Relative humidity	≤ 100% RH (non-condensing)
Maximum operating altitude	<ul style="list-style-type: none"> ● 2000 m ● 4000 m (optional)
Ingress protection (IP) rating	IP55
Cooling method	Intelligent liquid cooling
Noise	<ul style="list-style-type: none"> ● ≤ 75 dB (A) ● ≤ 65dB (A) (optional)
Weight (approx.)	38000 kg
Anti-corrosion degree	<ul style="list-style-type: none"> ● C3-M ● C4 (optional) ● C5 (optional)
Seismic level	<ul style="list-style-type: none"> ● IEEE 693 moderate seismic level qualification ● IEEE 693 high seismic level qualification (optional)
Snow load	1.44 kPa
Wind load	57.7 m/s
Dimension (W × D × H)	3950 × 2438 × 3100 mm
Fire suppression system	Fire alarm control panel, smoke and heat detectors, alarm sounder, horn strobe, gas detector, ventilation system (compliant with NFPA 69), standard fire hose connection, aerosol
Communication	Ethernet
Standard compliance	IEC 61000, IEC 62619, IEC 62933, IEC 63056, IEC 62477-1, UN38.3/UN3536, UL 9540A, UL 9540